

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21767-007US1	Application No. 10/561,425
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Martin Griffin et al.	
		Filing Date December 19, 2005	Group Art Unit

### U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,912,120	03/27/1990	Castelhano et al.			
	AB	4,968,713	11/06/1990	Baldwin et al.			
	AC	5,726,051	3/10/1998	Fraij et al.			
	AD						

### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AE	EP 0411701	2/6/1991	EPO				
	AF	EP 0411895	2/6/1991	EPO				
	AG	EP 0771565	05/07/1997	EPO				
	AH	EP 0927716	07/07/1999	EPO				
	AI	WO 98/54093	12/3/1998	WIPO				
	AJ							

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AK	Abo-Zenah et al., "Tissue Transglutaminase (tTg): A Role in Human Allograft Nephropathy." 2001, <i>J. Am. Soc. Nephrol.</i> <b>12</b> , 4454A
	AL	Achyuthan, K.E. & Greenberg, C.S., "Identification of a Guanosine Triphosphate-binding Site on Guinea Pig Liver Transglutaminase" 1987, <i>J. Biol. Chem.</i> <b>262</b> , 1901-1906
	AM	Achyuthan, K.E. et al., "Immunochemical analyses of human plasma fibronectin-cytosolic transglutaminase interactions" 1995, <i>J. Immunol. Methods</i> <b>180</b> , 67-79
	AN	Aeschlimann & Thomazy, "Protein Crosslinking in Assembly and Remodelling of Extracellular Matrices: The Role of Transglutaminases" 2000, <i>Connective Tissue Research</i> <b>41</b> (1):1-27
	AO	Akimov et al., "Tissue Transglutaminase Is an Integrin-binding Adhesion Coreceptor for Fibronectin" 2000, <i>J. Cell. Biol.</i> <b>148</b> (4):825-838
	AP	Amendola et al., "Tissue transglutaminase in AIDS" 2002, <i>J. Immunol. Methods</i> <b>265</b> :145-159
	AQ	Antonjuk, D.J. et al., "Synthesis of Monoamides of Methotrexate from L-Glutamic Acid Monoamide t-Butyl Esters" 1984, <i>J. Chem. Soc. Perkin Trans. 1</i> 1989-2003
	AR	Ariens et al., "Role of factor XIII in fibrin clot formation and effects of genetic polymorphisms" 2002, <i>Blood</i> <b>100</b> (3):743-754
	AS	Blas, J. et al., "Solid phase synthesis of glutamic acid derivatives via nucleophilic ring opening of N-Boc pyroglutamate with heteronucleophiles" 2000 <i>Tetrahedron Lett.</i> <b>41</b> :4567-4571

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21767-007US1	Application No. 10/561,425
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Martin Griffin et al.	
		Filing Date December 19, 2005	Group Art Unit

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AT	Citron et al., "Intron-Exon Swapping of Transglutaminase mRNA and Neuronal Tau Aggregation in Alzheimer's Disease" 2001 <i>J. Biol. Chem.</i> <b>276</b> (5):3295-3301
	AU	Coutts & Saint "The Reaction of Lithium Trimethylsilyldiazomethane with Pyroglutamates – a Facile Synthesis of 6-Diazo-5-oxo-norleucine and Derivatives" 1998 <i>Tetrahedron Lett.</i> <b>39</b> :3243-3246
	AV	Dubbink H.J. et al., "Human Prostate-Specific Transglutaminase: A New Prostatic Marker with a Unique Distribution Pattern" 1999 <i>Lab. Invest.</i> <b>79</b> (2):141-150
	AW	Folk & Cole, "Mechanism of Action of Guinea Pig Liver Transglutaminase" 1966, <i>J. Biol. Chem.</i> <b>241</b> (23):5518-5525
	AX	Folk & Gross, "Mechanism of Action of Guinea Pig Liver Transglutaminase" 1971, <i>J. Biol. Chem.</i> <b>246</b> (21):6683-6691
	AY	Folkman J. "Angiogenesis in cancer, vascular, rheumatoid and other disease" 1995, <i>Nat. Med.</i> <b>1</b> :27-31
	AZ	Freund et al., "Transglutaminase Inhibition by 2-[(2-Oxopropyl) thio]imidazolium Derivatives: Mechanism of Factor XIIIa Inactivation" 1994 <i>Biochemistry</i> <b>33</b> :10109-10119
	AAA	Guadry C.A. et al., "Tissue Transglutaminase Is an Important Player at the Surface of Human Endothelial Cells: Evidence for Its Externalization and Its Colocalization with the $\beta_1$ Integrin" 1999 <i>Exp. Cell Res.</i> <b>252</b> :104-113
	ABB	Gentile V. et al., "Isolation and Characterization of cDNA Clones to Mouse Macrophage and Human Endothelial Cell Tissue Transglutaminases" 1991, <i>J. Biol. Chem.</i> <b>266</b> (1):478-483
	ACC	Gorman and Folk, "Structural Features of Glutamine Substrates for Transglutaminases" 1984 <i>J. Biol. Chem.</i> <b>259</b> (14):9007-9010
	ADD	Greenberg C.S., et al., "Transglutaminases: multifunctional cross-linking enzymes that stabilize tissues" 1991 <i>FASEB J.</i> <b>5</b> :3071-3077
	AEE	Greenberg C.S., et al., "The Transglutaminase in Vascular Cells and Tissues Could Provide an Alternate Pathway for Fibrin Stabilization" 1987, <i>Blood</i> <b>70</b> (3):702-709
	AFF	Griffin et al., "Transglutaminases: Nature's biological glues" 2002 <i>Biochem. J.</i> , <b>368</b> :377-396
	AGG	Griffin & Wilson "Detection of C( $\gamma$ -glutamyl) lysine" 1984 <i>Mol. Cell. Biochem.</i> <b>58</b> :37-49
	AHH	Gross et al., "Alkyl Isocyanates as Active Site-directed Inactivators of Guinea Pig Liver Transglutaminase" 1975 <i>J. Biol. Chem.</i> <b>250</b> (19):7693-7699
	AII	Gross & Folk "Mapping of the Active Sites of Transglutaminases" 1973 <i>J. Biol. Chem.</i> <b>248</b> (18):6534-6540
	AJJ	Gross & Folk "Mapping of the Active Sites of Transglutaminases" 1973 <i>J. Biol. Chem.</i> <b>248</b> (4):1301-1306
	AKK	Haroon et al., "Tissue transglutaminase is expressed, active, and directly involved in rat dermal wound healing and angiogenesis" 1999 <i>FASEB J.</i> <b>13</b> :1787-1795
	ALL	Hopkins et al., "Inactivation of $\gamma$ -Aminobutyric Acid Aminotransferase By Various Amine Buffers" 1992 <i>J. Enzyme Inhibition</i> <b>6</b> :195-199
	AMM	Johnson et al. "Interleukin-1 Induces Pro-Mineralizing Activity of Cartilage Tissue Transglutaminase and Factor XIIIa" 2001 <i>Am. J. Pathol.</i> <b>159</b> (1):149-163
	ANN	Johnson et al., "Transglutaminase Transcription and Antigen Translocation in Experimental Renal Scarring" 1999 <i>J. Am. Soc. Neph.</i> <b>10</b> :2146-2157

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21767-007US1	Application No. 10/561,425
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Martin Griffin et al.	
		Filing Date December 19, 2005	Group Art Unit

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AOO	Johnson et al., "The Role of Transglutaminase in the Rat Subtotal Nephrectomy Model of Renal Fibrosis" 1997 <i>J. Clin. Invest.</i> <b>99</b> (12):2950-2960
	APP	Jones R. A., et al., "Reduced expression of tissue transglutaminase in a human endothelial cell line leads to changes in cell spreading, cell adhesion and reduced polymerisation of fibronectin" 1997 <i>J. Cell. Sci.</i> <b>110</b> :2461-2472
	AQQ	Kinsella, M.G. & Wight, T.N. "Formation of High Molecular Weight Dermatan Sulfate Proteoglycan in Bovine Aortic Endothelial Cell Cultures" 1990 <i>J. Biol. Chem.</i> <b>265</b> (29):17891-17898
	ARR	Kuhn and Kratz "Synthesis of Imidazol-2-ylidenes by Reduction of Imidazole-2(3H)-thiones" 1993 <i>Synthesis</i> 561-562
	ASS	Lee et al., "Development of Selective Inhibitors of Transglutaminase" 1985 <i>J. Biol. Chem.</i> <b>260</b> (27):14689-14694
	ATT	Lesort M. et al., "Distinct Nuclear Localization and Activity of Tissue Transglutaminase" 1998 <i>J. Biol. Chem.</i> <b>273</b> (20):11991-11994
	AUU	Lorand et al., "A Filter Paper Assay for Transamidating Enzymes Using Radioactive Amine Substrates" 1972 <i>Anal Biochem</i> <b>50</b> :623-631
	AVV	Lorand et al., "Amine Specificity in Transpeptidation. Inhibition of Fibrin Cross-Linking" 1968 <i>Biochemistry</i> <b>7</b> :1214-1223
	AWW	Lorand et al., "Lysine As Amine Donor in Fibrin CrossLinking" 1966 <i>Biochem. Biophys. Res. Commun.</i> <b>25</b> (6):629-637
	AXX	Macedo et al., "Synthesis of Dipeptide-Bound Epoxides and $\chi$ , $\beta$ -Unsaturated Amides as Potential Irreversible Transglutaminase Inhibitors" 2002 <i>Bioorganic &amp; Medicinal Chemistry</i> <b>10</b> :355-360
	YYY	Marrano et al., "Synthesis and Evaluation of Novel Dipeptide-Bound 1,2,4-Thiadiazoles as Irreversible Inhibitors of Guinea Pig Liver Transglutaminase" 2001 <i>Bioorg. Chem.</i> <b>9</b> :3231-3241
	AZZ	Martinez et al., "Transglutaminase-Mediated Processing of Fibronectin by Endothelial Cell Monolayers" 1994 <i>Biochemistry</i> <b>33</b> :2538-2545
	AAAA	Marzari et al., "Molecular Dissection of the Tissue Transglutaminase Autoantibody Response in Celiac Disease" 2001 <i>J. Immunol.</i> <b>166</b> :4170-4176
	ABBB	Mehta "High Levels of Transglutaminase Expression in Doxorubicin-Resistant Human Breast Carcinoma Cells" 1994 <i>Int. J. Cancer</i> <b>58</b> :400-406
	ACCC	Mehta et al., "Multidrug-Resistant MCF-7 Cells: An Identity Crisis?" 2002 <i>J. Natl. Cancer Inst.</i> <b>94</b> (21):1652-1654
	ADDD	Mehta et al., "Improved Efficiency and Selectivity in Peptide Synthesis: Use of Triethylsilane as a Carbocation Scavenger in Deprotection of t-Butyl Esters and t-Butoxycarbonyl-Protected sites" 1992 <i>Tetrahedron Lett.</i> <b>33</b> :5441-5444
	AEEE	Molberg et al., "Role of Tissue Transglutaminase in Celiac Disease" 2000 <i>J. Pediatr Gastroenterol Nutr.</i> <b>30</b> :232-240
	AFFF	Molina, T.M. et al., "Regioselective Ring Opening of Chiral N-Boc Protected Pyroglutamate and Pyroaminoadipate Ethyl Esters with Heteronucleophiles" 1993 <i>Tetrahedron</i> <b>49</b> (18):3801-3808
	AGGG	Pliura et al., "Irreversible Inhibition of Transglutaminase by Sulfonium Methylketones:..." <i>J. Enzyme Inhibition</i> Vol. 6(3):181-194, 1992.
	AHHH	Reinhardt "Inhibition of Clotting Factor XIIIa <i>in Vitro</i> by Specific $\chi$ -Halogenmethyl Carbonyl Compounds" 1980 <i>Appl. Biochem</i> <b>2</b> :495-509
	AIII	Risau "Mechanisms of angiogenesis" 1997 <i>Nature</i> <b>386</b> :671-674

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 21767-007US1	Application No. 10/561,425
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Martin Griffin et al.	
		Filing Date December 19, 2005	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AJJJ	Shaw "Peptidyl Sulfonium Salts" 1988 <i>Biol. Chem.</i> <b>263</b> (6):2768-2772
	AKKK	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	